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[1 Software validation via scalable path-sensitive value flow analysis](#)

Nurit Dor, Stephen Adams, Manuvir Das, Zhe Yang

July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '04**, Volume 29 Issue 4

Publisher: ACM Press

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In this paper, we present a new algorithm for tracking the flow of values through a program. Our algorithm represents a substantial improvement over the state of the art. Previously described value flow analyses that are control-flow sensitive do not scale well, nor do they eliminate value flow information from infeasible execution paths (i.e., they are path-insensitive). Our algorithm scales to large programs, and it is path-sensitive. The efficiency of our algorithm arises from three ins ...

Keywords: alias analysis, path-sensitive analysis, value flow

[2 ESP: path-sensitive program verification in polynomial time](#)

Manuvir Das, Sorin Lerner, Mark Seigle

May 2002 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation PLDI '02**, Volume 37 Issue 5

Publisher: ACM Press

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In this paper, we present a new algorithm for partial program verification that runs in polynomial time and space. We are interested in checking that a program satisfies a given temporal safety property. Our insight is that by accurately modeling only those branches in a program for which the property-related behavior differs along the arms of the branch, we can design an algorithm that is accurate enough to verify the program with respect to the given property, without paying the potentially ex ...

Keywords: dataflow analysis, error detection, path-sensitive analysis

[3 Path-sensitive value-flow analysis](#)